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# Safety Instructions

- Children should be supervised in order to ensure that they do not play with the device. This device is not intended to be used by individuals with limited physical, sensory or intellectual abilities or limited experience, and/or a lack of knowledge (including children), unless they are being supervised by an individual responsible for their safety or receive instructions from them concerning how the device must be used.
- Also, keep the plastic packaging out of reach for children to avoid danger of suffocation.

## Preventing electric shocks

- Never open the camcorder casing or mains adapter plug except to insert the battery.
- Connect the mains adapter plug to a professionally installed 230 V, 50 Hz mains socket.
- To remove the mains adapter quickly and easily from the mains in an emergency, the socket must be easily accessible and close to the appliance.
- Do not bend or crush the mains cable.
- Take measures to prevent moisture or liquid from penetrating the camcorder or mains adapter.
- Do not touch the mains cable with wet hands.
- Never use the camcorder if the mains adapter is damaged.
- Always have repairs carried out by qualified professionals.
- Switch the camcorder off immediately if it malfunctions.
- Do not allow the camcorder or mains adapter to come into contact with rain or be splashed by water.
- Do not place containers containing liquid, e.g. vases, on the appliance, the mains adapter or near to these and protect all parts of the device from rain and water. The container may tip over and the liquid will impair the electrical safety.

## Risk of explosion

- Never expose batteries or rechargeable batteries to excessive heat such as sunshine, fire or similar.
- Do not throw batteries into a fire.
- Never short-circuit any (rechargeable) batteries.
- Do not dismantle (rechargeable) batteries.



**CAUTION!** There is a risk of explosion if rechargeable batteries are replaced incorrectly. Replace only with the same or equivalent type.

## **Preventing fire hazards**

- Always uncoil the entire length of the mains cable.
- Ensure there is adequate ventilation and never cover the mains adapter.
- Do not place naked flames such as lit candles on or near the unit.

## **Risk of poisoning**

- Keep the battery out of reach of children.

## **Risk of chemical burns**

- If the battery is depleted remove it from the device immediately. There is an increased risk of leakage. Avoid contact with skin, eyes and mucous membranes. If these areas come into contact with battery acid, rinse them immediately with plenty of clean water and contact a doctor immediately.

## **Preventing damage to the eyes**

- Do not use the flash close to anyone's eyes.
- Always maintain a minimum distance of one metre when using the flash, especially with small children.
- When using the camera function do not direct the flash towards the eyes of people or animals.

## Preventing damage to the ears

- Give careful consideration to volume levels when using ear or headphones. Volume levels that are too high can produce excessive pressure and can lead to loss of hearing.



**Important!**

Excessive volume when using earphones and headphones may lead to hearing damage and/or the loss of hearing. Set the volume to the lowest level before the playback.

Start the playback and increase the volume to the level that is comfortable for you.



It may cause damage to the hearing of the listener if a device is operated through headphones with increased volume for a longer period.

## Preventing damage to the camcorder

- If the battery is leaking remove it from the camcorder immediately. Clean the contacts before inserting a new battery.
- Use type NP60 lithium-ion batteries only.
- Before inserting the battery, check that the contacts in the camcorder and on the batteries are clean. Clean the battery connections if necessary with a clean, dry cloth or an eraser.
- Do not touch the lens or lens mounting.

## Preventing damage to the battery

- Never insert the battery the wrong way round. Always ensure the correct polarity at the +/- terminals.
- Never allow the battery to come into contact with liquids.
- Direct intense heat can damage the battery. Therefore do not expose the camcorder to any sources of direct heat.
- If the camcorder is not going to be used for long periods, remove the battery.

## Preventing breakages

- Do not drop the camcorder.
- Place the strap around your wrist when carrying the camcorder.

## **Preventing data loss**

- Never interrupt the power supply when data are being processed.

## **Preventing damage to SD cards**

- Never remove the SD card from the camcorder while it is saving data.

## **Protecting from condensation**

- Avoid rapid changes in temperature.
- Place the camcorder in a protective case or plastic bag before exposing it to any sudden changes in temperature.
- Do not immediately connect the device to the power supply if the unit has been moved from a cold environment to a warm room. The device can safely be connected for charging as soon as the unit has reached room temperature.
- Do not use or store the camcorder in direct sunlight or at high temperatures.



At low temperatures the capacity of the battery can drop significantly due to the reduced speed of the chemical reactions. When recording in cold weather keep a second battery pack in reserve in a warm place (e.g. trouser pocket).



This symbol on the camcorder certifies that the camcorder complies with EU guidelines (European Union) on radiated emissions. CE stands for Conformité Européenne (European conformity)

# The Camcorder

## Product description

The camcorder provides:

- the functions of a digital camcorder,
- a digital camera,
- an MP3 player,
- a dictation machine,

all in one handy device.

Instead of a viewfinder the camcorder has a high-resolution LC display which you can use to check your photos. The LC display also serves to display the on-screen menus in which you can make your settings.

The camcorder has a digital 8x digital zoom and can record films in a maximum resolution of HD 1280x720 and photos in 2592x1944 (5M pixels) / 3744x2808 (11M pixels).

The internal memory has a capacity of 34 MB. You can therefore take photos or record short films even if there is no SD card in the camcorder.

The camcorder can be easily connected via a USB to a computer or via HDMI to an HD-compatible TV.

## Package contents

Check that the following parts have been supplied in the package:

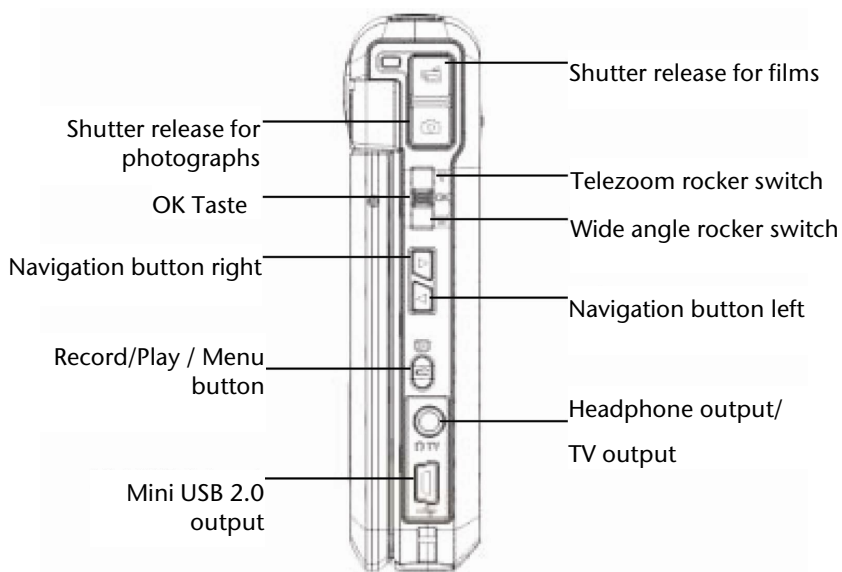
- |                      |                  |
|----------------------|------------------|
| • MD 85806 Camcorder | • Carrying strap |
| • Mains adapter      | • Earphones      |
| • USB cable          | • Case           |
| • HDMI cable         | • Li-ion battery |
| • AV cable           | • Software CD    |

# Overview of the appliance

## Front



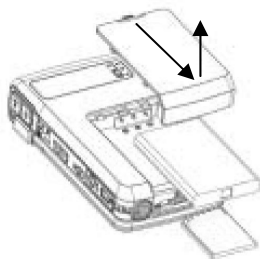
## Rear



# Getting started

Remove the cover to insert the battery and memory card.

- ▶ Hold the camcorder with the battery compartment cover facing upwards.
- ▶ Remove the cover as depicted on the right.
- ▶ Place the battery with the lettering facing downwards in the designated compartment in the camcorder.
- ▶ Take an SD memory card and slide this into the SD card slot which is underneath the battery compartment.



Ensure that the contacts on the card are facing downwards.

To close the cover, place the cover on the battery compartment and push the cover upwards until it clicks into place.

- ▶ To remove the battery, remove the cover and take the battery out.
- ▶ To remove the memory card, press the memory card until you hear a click in the slot and then let go. The memory card will be automatically ejected a little from the slot so that you can remove the card.

## Charging the battery

- ▶ To charge the battery connect the camcorder to the power supply.
- ▶ Plug the mains adapter into a 230 V ~ 50 Hz socket.



The battery requires approximately six hours to reach full charge for the first time.

Tips for proper use of batteries can be found in the section (safety tips / avoiding damage to the battery)

# Switching the camcorder on and off

To activate the camcorder, open the display panel as shown below.



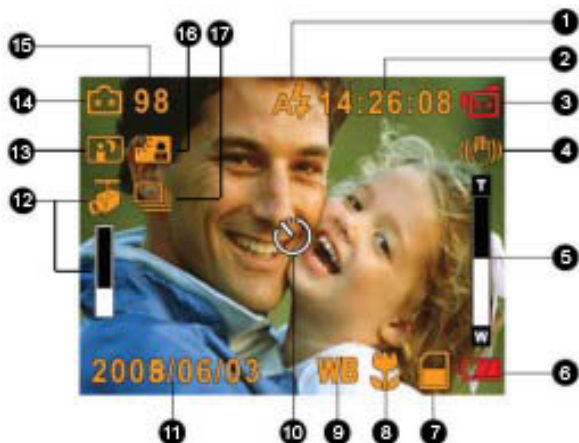
- ▶ Turn the display panel so that you can easily see the 3" LCD display.



- ▶ To turn the camcorder off, either simply fold the display panel back to its original position or press the on/off switch until the LED changes briefly from green (ready to operate mode) to red and then switches off.
- ▶ Take care to turn off the device after use to avoid using power unnecessarily.

# Display information

The in-built 3" LCD display shows the following important information next to the recordings. You will find the descriptive key on the next page.



|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  |  Auto Flash /  Flash On /<br> Red-Eye-Reduction /  Light on                                                                              |
| 2  | Number of images or recording time of movie that can still be taken at current resolution.                                                                                                                                                                                                                                                                                                                                                                                   |
| 3  | Movie Record Mode:  HD /  D1 /  VGA /  QVGA                                                                                              |
| 4  | Motion Stabilization                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 5  | 8 x digital zoom                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 6  |  full power /  medium power /<br> low power /  power empty                                                                               |
| 7  |  SD card inside                                                                                                                                                                                                                                                                                                                                                                             |
| 8  |  Makro Position Focusing                                                                                                                                                                                                                                                                                                                                                                    |
| 9  | <b>WB</b> White Balance                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 10 |  Self-timer enabled                                                                                                                                                                                                                                                                                                                                                                         |
| 11 | Date/Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 12 |  Motion Detection                                                                                                                                                                                                                                                                                                                                                                           |
| 13 |  Night Mode                                                                                                                                                                                                                                                                                                                                                                                 |
| 14 | Picture Record Mode:<br>  High /   Standard /  Low |
| 15 | Number of images or recording time of movie that can still be taken at current resolution                                                                                                                                                                                                                                                                                                                                                                                    |
| 16 |  Backlight Mode                                                                                                                                                                                                                                                                                                                                                                           |
| 17 |  Multi-Snap Mode                                                                                                                                                                                                                                                                                                                                                                          |

## Changing the mode of operation

After start-up the camcorder is in recording mode. You can start taking photos or recording films immediately.

- ▶ Press **RECORD/PLAY** to change from recording mode to playback mode.
- ▶ Press **RECORD/PLAY** again to change back from playback mode to recording mode.

## Using the on-screen menus

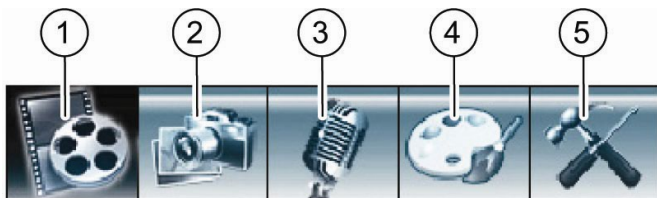
You can use the on-screen menus to select all the specific settings, to call up functions and to define the playback modes. The on-screen menus vary depending on the operating mode.

- ▶ Press **OK** to display the settings menu.
- ▶ Press **RECORD/PLAY** to display the playback menu.
- ▶ Use the **TELE-** and **WIDE-ANGLE** rocker switch to move up and down on the on-screen menus.
- ▶ Use the **“LEFT”** and **“RIGHT”** navigation buttons to move left and right in the on-screen menus.
- ▶ Press **OK** to confirm a selection.
- ▶ Press **Finish** to cancel your settings and to return to the previous screen.
- ▶ Press **OK**. Alternatively, press **RECORD/PLAY**.

# Main menu

- ▶ To open the menu, press the **OK** button once.

In the main menu there are five sub-menus represented by appropriate symbols. Here you can select the following settings:



- 1) Film mode
  - 2) Camera mode
  - 3) Voice Pen (dictation machine function)
  - 4) Effect
  - 5) Setting
- ▶ To select a menu, press the **LEFT/RIGHT** buttons until the required menu is in the dark area.
  - ▶ To open the required menu, press the **OK** button.

# Film mode menu

You can select settings to operate the camcorder in the “Film Mode” menu. You can select the following settings:

- Resolution
  - Exposure
  - Light
  - Sharpness
  - White balance
  - Stabilisation
  - Motion detection function
  - Night shots
- ▶ To select a menu, press the **LEFT/RIGHT** buttons until the required menu is in the dark area.
- ▶ To select the required menu, press the **OK** button.

## Resolution

The following settings are available for film quality:

| Setting | Resolution |
|---------|------------|
| HD      | 1280 x 720 |
| D1      | 720 x 480  |
| VGA     | 640 x 480  |
| QVGA    | 320 x 240  |

The selected resolution will remain active until you select a different one.

## Exposure

The camera automatically selects the correct exposure. In difficult lighting conditions you can achieve better results by adjusting the exposure manually (exposure value = EV).

If you want to film someone with a sunset in the background, for example, you will need artificial underexposure.

- ▶ If you want artificial underexposure, select a setting in the negative range (-0.3 EV, -0.6 EV or -1.0 EV).
- ▶ For overexposure select a setting in the positive range (+1.0 EV, +0.6 EV or +0.3 EV).

The selected exposure will remain active until you select a different one, or until the camera is switched off.

## Light

In order to also switch the camera's light on while filming, select the "on" setting.

## Definition

You can select nine levels of definition with this setting. The factory setting is level 5.

- ▶ To sharpen the definition select a higher level.
- ▶ To reduce the definition select a lower level.



## White balance

The camera sets the white balance automatically.

- ▶ If you notice a colour imbalance on the LC display while filming then change the white balance setting.
- ▶ Then continue recording.

The following settings are available:

| <b>Setting</b> | <b>Explanation</b>                             |
|----------------|------------------------------------------------|
| Auto           | The camera automatically adjusts white balance |
| Daylight       | Under outdoors                                 |
| Fluorescent    | Under fluorescent light condition              |
| Tungsten       | Under tungsten light condition                 |

## **Stabilisation**

This setting can be used to reduce blurring as a result of unsteady shooting.



The recorded image becomes smaller if the stabilisation function is activated.  
The digital zoom is deactivated if the stabiliser function is enabled.

## **Motion detection function**

You can make video recordings automatically in this setting as soon as something moves for three seconds in the display window. Recording stops automatically when motion is detected to have ceased for longer than three seconds.

## **Night shots**

For better results with night shots select “On” in the night exposure menu.

## **Finishing**

Select “Finish” to exit film mode without setting changes.

# Recording films

Proceed as follows in order to record films:

- ▶ Lift the LC display flap.
- ▶ Select the required display window using **TELE/WIDE-ANGLE**.
- ▶ Press the shoot **FILM** button to start recording.

While the film is being recorded, the time is shown on the LC display (hours: minutes: seconds).

- ▶ Press the shoot **FILM** button again to stop recording.

## Selecting the settings

The camera is supplied with specified factory settings (see page 50).

## Film playback

There are different options for viewing the films recorded in the internal memory or on the optional memory card.

### Playback on the LC display

Proceed as follows to view the films on the camera's LC display:

- ▶ Press **RECORD/PLAY**.

The main menu for playback mode will appear.

- ▶ Use the **RIGHT/LEFT** buttons or **TELE/WIDE-ANGLE** to select the menu option required.
- ▶ Press **OK**.



The most recently recorded film will be shown on the LC display. The number of the film selected will be shown in the top left-hand corner of the display. The second digit indicates the number of films recorded.

- ▶ Use the **RIGHT/LEFT** buttons in order to move to the previous or next film.
- ▶ Press the shoot **FILM** button to start playback.
- ▶ Use the **RIGHT/LEFT** buttons to fast forward or rewind during film playback.
- ▶ Release the button again to stop the fast forward or rewind function.

You can use **TELE/WIDE-ANGLE** to adjust the volume during playback.

- ▶ Press **TELE/WIDE-ANGLE** towards “**T**” to increase the volume.
- ▶ Press **TELE/WIDE-ANGLE** towards “**W**” to decrease the volume.



## Playback on a TV set

Proceed as follows to view the films on a television set:

- ▶ Connect the black plug on the AV cable to the camera's TV output.
- ▶ Connect the white and yellow plug on the AV cable to the corresponding sockets on the television set.
- ▶ Switch the television set on.
- ▶ The “Earphones/TV” menu will appear on the LC display.
- ▶ Select the TV option using **TELE/WIDE-ANGLE**.
- ▶ Press **OK**.



The film will be displayed on the TV set.



The LC monitor is switched off while the camera is connected to a TV set.

Connect your camera using an HDMI cable to your TV set with a digital connection to view your films recorded in HD format.

# Functions in playback mode

The following functions are also available to you in “Film playback” mode.

- ▶ Call up the playback mode.
- ▶ Press **OK** when the most recently recorded film is displayed.

## Deleting films

- ▶ Use the **RIGHT/LEFT** buttons to select the “Delete” option.
- ▶ Press **OK**.

The “Delete” menu will be displayed.



- ▶ Use the **RIGHT/LEFT** buttons to select a film for deletion.
- ▶ Push the **TELE/WIDE-ANGLE** button towards “**W**” in order to delete an individual film.
- ▶ Push the **TELE/WIDE-ANGLE** button towards “**T**” in order to delete all films.
- ▶ Select “Yes” to proceed with deletion.
- ▶ Select “No” to cancel the process.
- ▶ Press **OK**.





If a memory card is inserted you can delete only the films on the memory card.

If the memory card is locked you cannot delete the films on the memory card.

If the films you wish to delete are protected you will have to unlock them before deletion.

## Displaying thumbnails

This function provides you with a more rapid overview of the films stored in the memory.

- ▶ Use the **RIGHT/LEFT** buttons to select the “thumbnail” option.
- ▶ Press **OK**.

Up to nine films can be shown as thumbnails.

- ▶ Use the **RIGHT/LEFT** buttons or **TELE/WIDE-ANGLE** to select the film required.
- ▶ Press **OK** to play back the film.



## Locking films

This function enables you to protect individual films or all films from accidental deletion.

- ▶ Use the **RIGHT/LEFT** buttons to select the “Lock” option.
- ▶ Press **OK**.

The “Lock” menu will be displayed.

- ▶ Use the **RIGHT/LEFT** buttons to select a film.
- ▶ Push the **TELE/WIDE-ANGLE** button towards “T” in order to lock/unlock all films.
- ▶ Push the **TELE/WIDE-ANGLE** button towards “W” in order to lock/unlock just one film.



A confirmation window will then be displayed.

- ▶ Select “Yes” to proceed with the action.
- ▶ Select “No” to cancel the process.
- ▶ Press **OK**.

## Replaying films

This function enables automatic repeated playback of individual films or all films.

- ▶ Use the **RIGHT/LEFT** buttons to select the “Replay one” option.
- ▶ Press **OK**.
- ▶ The selected film will be replayed.
- ▶ Use the **RIGHT/LEFT** buttons to select the “Replay all” option.
- ▶ Press **OK**.

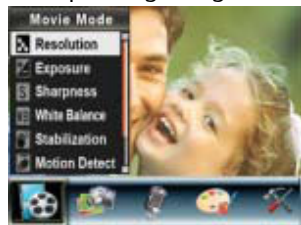


All the films available will be replayed.

# Camera mode menu

The “camera mode” menu contains the settings required for operating in digital camera mode:

- Resolution
- Exposure
- Two-in-one
- Photo frames
- Flash
- Self-timer
- Sharpness
- White balance
- Multi-snap
- Backlight
- Date Printing
- Night Mode



- ▶ To select a menu, press the **RIGHT/LEFT** buttons until the required menu is in the dark area.
- ▶ To open the required menu, press the **OK** button.

## Resolution

The following settings are available for photo quality:

| Setting  | Explanation         |
|----------|---------------------|
| High     | High Resolution     |
| Standart | Standart Resolution |
| Low      | Low Resolution      |

The selected resolution will remain active until you select a different one, or until the camera is switched off.



Connect your camera using an HDMI cable to your TV set with a digital HDMI input to view your photos in HD format.

## Exposure

The camera automatically selects the correct exposure.

In difficult lighting conditions you may achieve better results by adjusting the exposure manually.

- ▶ If you want to photograph someone with a sunset in the background, for example, you will need artificial overexposure.
- ▶ For overexposure select a setting in the positive range (+1.0 EV, +0.6 EV or +0.3 EV).
- ▶ If you want artificial underexposure, select a setting in the negative range (−0.3 EV, −0.6 EV or −1.0 EV).



The setting will be retained until you select another one or switch the camera off. The factory setting is 0 EV.

## Two-in-one

This setting enables you to combine two photos to make one photo.

- ▶ Select the “Two-in-one” sub-menu from the camera mode menu.
- ▶ Select this setting.



The right half of the LC display will be dimmed.

- ▶ Select the display window on the non-dimmed half of the LC display.
- ▶ Press the photo release shutter.

The left side of the LC display will now be dimmed.

- ▶ Select the display window on the non-dimmed half of the LC display.
- ▶ Press the photo release shutter.



The “Two-in-One” setting remains active for one photograph at a time. The camera then returns to normal shooting mode.

## Photo frames

A photograph can be framed using this setting. There are ten different frames to choose from.

- ▶ Select the “photo frame” sub-menu from the camera mode menu.
- ▶ Press **OK**.
- ▶ Select a picture frame using **TELE/WIDE-ANGLE**.
- ▶ Press **OK** to frame the photos with the frame selected.
- ▶ Press **RECORD/PLAY** to exit this function.
- ▶ In order to switch off the picture frame via the menu, choose the grey picture frame.



The photos will then appear in the selected frame.



The setting will be retained until you select another one or switch the camera off.

# Flash

There are four settings available to control the flash:

| Setting           | Explanation                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Auto Flash        | The flash fires automatically according to light conditions. Use this mode for general photography.                                                                                                 |
| Flash On          | The flash will fire in every shot.                                                                                                                                                                  |
| Flash Off         | The flash will not fire under any circumstances. Use this mode when taking images in a place where flash photography is prohibited, or when the subject is distant (beyond the range of the flash). |
| Red Eye Reduction | The flash fires twice right before the picture is taken.                                                                                                                                            |

- ▶ Select the settings using the “Flash” menu or with the **RIGHT** button.

The relevant symbol for the selected setting will appear in the display.



The chosen setting will be retained until you select another one.

## Self-timer

The self-timer allows you to take photographs with a time delay. If for example you want to appear on a photograph yourself, you can use the self-timer.

- ▶ You can set the self-timer via the self-timer menu.

The self-timer symbol appears in the display.

Once the self-timer is activated approximately ten seconds will elapse before the photograph is taken. The self-timer LED flashes slowly during this period. It then flashes more rapidly shortly before taking the photograph.

- ▶ Place the camera on a level surface or use a tripod in order to prevent the shots from being out of focus.



The self-timer setting is active for only one photograph at a time. The camera then returns to normal shooting mode.

## White balance

The camera sets the white balance automatically.

- ▶ If you notice a colour imbalance on the LC display while taking a photograph then adjust the white balance setting.
- ▶ Then continue recording.

The following settings are available:

| Setting     | Explanation                                    |
|-------------|------------------------------------------------|
| Auto        | The camera automatically adjusts white balance |
| Daylight    | Under outdoors                                 |
| Fluorescent | Under fluorescent light condition.             |
| Tungsten    | Under tungsten condition.                      |

## Continuous shooting

This setting enables five photographs to be taken in quick succession.

- ▶ Place the camera on a level surface or use a tripod in order to prevent the shots from being out of focus.



The setting is active for one series of shots only.

## Backlight

This setting enables you to take photos against the sun or other sources of light.



The setting will be retained until you select another one or switch the camera off.

## Date stamp

If you enable this setting the date will be printed on each photo. The date will also be visible on the prints of the photos.

- ▶ To have the date printed on a photo, select the “Date stamp” option in the “Camera mode” menu.
- ▶ Select “On” to activate the date stamp.
- ▶ Press **OK**.



The setting will be retained until you select another one.

## Night shots

For better results for night shots select the “On” option in the “Night shots” menu.

- ▶ Place the camera on a level surface or use a tripod in order to prevent the shots from being out of focus.



The setting will be retained until you select another one or switch the camera off.

# Taking photos

Proceed as follows to take photos:

- ▶ Lift the LC display flap.
- ▶ Select the required display window using **TELE/WIDE-ANGLE**.
- ▶ Press the **PHOTO** shutter release.



To take photos close up, activate the macro function.

## Selecting the settings

The camera is supplied with the factory settings specified on page 50 .

# Viewing photos

Your photos will be stored on the internal memory or on an optional SD card. You can view these photos in two different ways:

- Playback on the LC display
- Playback on a TV set.

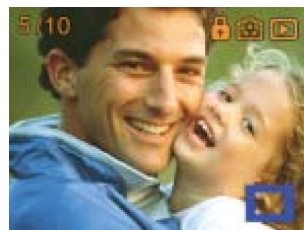
## Playback on the LC display

Proceed as follows to view the photos on the camera's LC display:

- ▶ Press **RECORD/PLAY**.

The playback mode menu will be displayed.

- ▶ Select "picture" using the **RIGHT/LEFT** button or **TELE/WIDE-ANGLE**.
- ▶ Press **OK**.
- ▶ The most recently taken photo taken will be shown on the LC display.
- ▶ Use the **RIGHT/LEFT** buttons to move to the previous or next photo.
- ▶ Slide the **TELE/WIDE-ANGLE** towards the "**T**" in order to enlarge the photo on the LC display.
- ▶ Slide the **TELE/WIDE-ANGLE** towards the "**W**" to reduce the photo on the LC display.



Proceed as follows to select a specific area of the photo for enlargement:

- ▶ Slide the **TELE/WIDE-ANGLE** button towards the **"T"**.

Two rectangles will be displayed, one inside the other. The outer rectangle represents the whole photo. The inner rectangle represents the selected area within the photo.

- ▶ Press **OK**.
- ▶ The frame of the inner rectangle will change colour.
- ▶ Using the **TELE/WIDE-ANGLE** or **RIGHT/LEFT** buttons move the inner rectangle onto the area to be enlarged.
- ▶ Press **OK**.

The frame of the inner rectangle will change colour.

- ▶ Slide the **TELE/WIDE-ANGLE** button towards the **"T"**.

The selected area will be enlarged.

- ▶ Push the **TELE/WIDE-ANGLE** button towards the **"W"** to reduce the area again.

## Playback on a TV set

Proceed as follows to view the photos on a television set:

- ▶ Connect the black plug on the AV cable to the camera's TV output.
- ▶ Connect the white and yellow plug on the AV cable to the corresponding sockets on the television set.
- ▶ Switch the television set on.
- ▶ The "Earphones/TV" menu will appear on the LC display.
- ▶ Select the "TV" option.
- ▶ Press **OK**.



Playback functions in the same way as the playback on the LC display.



Connect your camera using an HDMI cable to your TV set with a digital connection to view your photos taken in HD format.

The LC monitor is switched off while the camera is connected to a TV set.

You cannot take photographs at a high resolution while the camera is connected to a television set.

## Functions in playback mode

The following functions are available in playback mode for photos:

- Deleting photos
  - Displaying thumbnails
  - Locking/unlocking photos
  - Slide show.
- 
- ▶ Call up the playback mode.
  - ▶ Select “Photo” using the **RIGHT** button **OR TELE/WIDE-ANGLE**.
  - ▶ Press **OK**.
  - ▶ Press **OK** again.

# Deleting photos

- ▶ Use the **RIGHT/LEFT** buttons to select the “Delete” option.

- ▶ Press **OK**.

The “Delete” menu will be displayed.

- ▶ Use the **RIGHT/LEFT** buttons to select a photo for deletion.
- ▶ Push the **TELE/WIDE-ANGLE** button towards “**W**” in order to delete an individual photo.
- ▶ Slide the **TELE/WIDE-ANGLE** button towards “**T**” to delete all photos.

A confirmation window will then be displayed.

- ▶ Select “Yes” to proceed with deletion.
- ▶ Select “No” to cancel the delete operation.
- ▶ Press **OK** to finish the process.



If a memory card is inserted you can delete only the photos on the memory card.

If the memory card is locked you cannot delete the photos on the memory card.

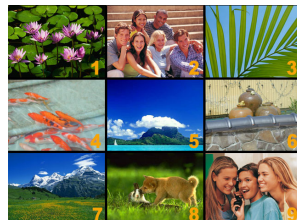
If the photos you wish to delete are protected you will have to unlock them before deletion.

## Displaying thumbnails

This function provides you with a more rapid overview of the photos stored in the memory.

- ▶ Use the **RIGHT/LEFT** buttons to select the “thumbnail” option.
- ▶ Press **OK**.

Up to nine thumbnails can be shown on the LC display.



- ▶ Use the **RIGHT/LEFT** buttons or **TELE/WIDE-ANGLE** to select the photo required.
- ▶ Press **OK** to display the photo.

## Locking photos

This function enables you to protect individual photos or all photos from accidental deletion.

- ▶ Use the **RIGHT/LEFT** buttons to select “Lock”.
- ▶ Press **OK**.

The “Lock” menu will be displayed.

- ▶ Use the **RIGHT/LEFT** buttons to select a photo.
- ▶ Push the **TELE/WIDE-ANGLE** button towards “**T**” in order to lock/unlock all photos.
- ▶ Push the **TELE/WIDE-ANGLE** button towards “**W**” in order to lock/unlock one photo.



A confirmation prompt will appear.

- ▶ Select “Yes” to proceed with the action.
- ▶ Select “No” to cancel the process.
- ▶ Press **OK** to finish the process.

## Slide show playback

This function enables you to have all the photos in the memory displayed in succession (as a slide show).

- ▶ Use the **RIGHT/LEFT** buttons to select the “Slide show” option.
- ▶ Press **OK**.

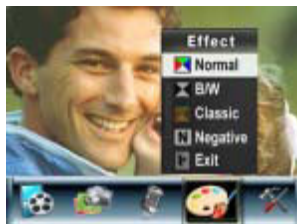
The slide show will start.

- ▶ To stop the slide show press **OK** again.

# Effect menu

You can specify the effects for filming and taking photos in the “Effect” menu:

- Standard
- B/W (Black and white)
- Classic (sepia effect)
- Negative
- Finish.



## Using film and photo effects

There are four effects available:

### Setting

### Explanation

Standart

No effect.

B/W (Black and white)

Black and white photos

Classic (sepia affect)

Sepia photos

Negative

- ▶ Select the “Effects” menu.
- ▶ Select the desired effect.
- ▶ Press **OK**.



The setting will be retained until you select another one or switch the camera off.

# Voice Pen menu (dictation machine)

You can use the “Voice Pen” menu to start audio recording and to use the camcorder as a dictation machine. The “Voice Pen” menu offers the following options:

- Enter
- Finish



## Sound recordings (Voice Pen)

With the in-built microphone the camera can also be used for sound recordings, e.g. as a dictation machine (“Voice Pen”).

## Recording

Proceed as follows to begin sound recording:

- ▶ Lift the LC display flap.
- ▶ Press **OK**.
- ▶ Press **RIGHT** until the Voice Pen menu is displayed.
- ▶ Select the “Input” option using **TELE/WIDE-ANGLE**.
- ▶ Press **OK**.
- ▶ Press the **SHOOT FILM** button to start the sound recording.



The sound files will be saved in WAV format.

## Playback

Proceed as follows to play back the sound recording:

- ▶ Press **RECORD/PLAY**.

The playback mode menu will be displayed.

- ▶ Use the **RIGHT** button to select the “Voice” menu.
- ▶ Press **OK**.
- ▶ Use the **RIGHT/LEFT** buttons to select the required sound file.
- ▶ Press **SHOOT FILM** to start playback.



The sound file will be played back via the in-built loudspeaker.

Press **TELE/WIDE-ANGLE** to adjust the volume.

- ▶ Press **SHOOT FILM** to interrupt playback.
- ▶ Press **OK** to call up the sound playback menu.
- ▶ Push the **TELE/WIDE-ANGLE** button towards the “**W**” to listen again to the most recent sound recording.
- ▶ Push the **TELE/WIDE-ANGLE** button towards the “**W**” twice in succession in order to listen again to all the sound recordings.



## Deleting sound recordings

Proceed as follows to delete a sound recording:

- ▶ Call up the “Voive” menu.
- ▶ Use the **RIGHT/LEFT** buttons to select a sound file for deletion.
- ▶ Press **OK**.
- ▶ Push the **TELE/WIDE-ANGLE** button towards “**T**” to call up the delete option.
- ▶ Push the **TELE/WIDE-ANGLE** button towards “**W**” to delete one single sound file.
- ▶ Push the **TELE/WIDE-ANGLE** button towards “**T**” to delete all the sound files.

A confirmation window will then be displayed.

- ▶ Select “Yes” to proceed with deletion.
- ▶ Select “No” to cancel the delete operation.
- ▶ Press **OK** to finish the process.



# Loading and playing MP3 music

You can listen to music in MP3 format with the camera via the in-built loudspeaker or using the earphones supplied.

## Loading MP3 music

- ▶ Using the cable provided, connect the camera to the computer's USB connection. The operating LED will light up red.
- ▶ Copy the MP3 files in the MP3 folder in the internal memory or onto the optional SD card.



The folder will be created automatically on the SD card

- ▶ Log the camera off the computer.
- ▶ Remove the USB cable.

## Playing MP3 music

Proceed as follows to play an MP3 file:

- ▶ Press **RECORD/PLAY**.

The playback mode menu will be displayed.

- ▶ Use the **RIGHT** button to select the Music menu.
- ▶ Press **OK**.
- ▶ Select an MP3 file using **TELE/WIDE-ANGLE**.
- ▶ Page through with the **RIGHT/LEFT** buttons.

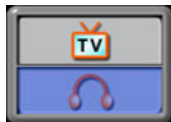
A musical note icon will be displayed next to any files with lyrics.

- ▶ Press **SHOOT FILM** or **OK** to play the MP3 file.
- ▶ Use **TELE/WIDE-ANGLE** to adjust the volume.
- ▶ Press the **SHOOT FILM** button again to stop playback.
- ▶ Press **OK** to call up the repeat menu.
- ▶ Push the **TELE/WIDE-ANGLE** button towards the “W” to listen to the current MP3 file again.
- ▶ Push the **TELE/WIDE-ANGLE** button towards the “W” twice in succession in order to listen to all the MP3 files again.



## Using earphones

- ▶ Plug the earphones supplied into the earphone socket.
- ▶ The “Earphones/TV” menu will be displayed.
- ▶ Using **TELE/WIDE-ANGLE**, select “earphones” on the screen and press **OK**.



### CAUTION!

Excessive pressure when using earphones and headphones can result in damage to hearing and/or loss of hearing.

Before playing back, set the volume to the lowest setting. Start playback and increase the volume to one which is comfortable for you.

# Setting menu

You can specify the following basic settings for the camcorder in the “Setting” menu:

- Sound
- Setting the time
- Formatting memory / card
- TV system
- Language
- Default



- ▶ To select a menu, press the **RIGHT/LEFT** buttons until the required menu is in the dark area.
- ▶ To select the required menu, press the **OK** button.

## Sound settings

You can switch the sound on or off.

- ▶ Select the required setting using the **TELE/WIDE ANGLE** button.
- ▶ Press **OK** to save the setting.

## Setting the time

- ▶ To set the year press the **TELE/WIDE-ANGLE** button repeatedly until the correct year is displayed. Then press **OK**.
- ▶ To set the month press the **TELE/WIDE-ANGLE** button repeatedly until the correct month is displayed. Then press **OK**.
- ▶ To set the day press the **TELE/WIDE-ANGLE** button repeatedly until the correct day is displayed. Then press **OK**.
- ▶ To set the hour press the **TELE/WIDE-ANGLE** button repeatedly until the correct hour is displayed. Then press **OK**.
- ▶ To set the minutes press the **TELE/WIDE-ANGLE** button repeatedly until the correct number is displayed. Press **OK**.
- ▶ To cancel the date and time setting and to retain the stored time, press **RECORD/PLAY**.
- ▶ To accept the changed settings, press **OK**.

## Formatting memory / SD card

If a memory card is not inserted, “format memory” will appear in the menu.



### CAUTION!

#### Loss of data possible.

If you format the memory all the data stored there will be deleted.

- ▶ Ensure that no important data is still in the memory or on the SD card.

- ▶ Select the “Format memory” menu to format the internal memory or the SD card.
- ▶ Press **OK**. A confirmation prompt will appear on the screen.
- ▶ To retain the stored data, select the “NO” option. The menu will close and the data will be retained.
- ▶ To delete the data, select the “Yes” option and press **OK**. The menu will be closed and the memory formatted.

## TV system

- ▶ You can set the camera to various TV systems. You can then adjust the display on the TV screen to your TV set. You can select NTSC (60 Hz) or PAL (50 Hz).
- ▶ To quit the menu without changing the settings, highlight “finish” and press **OK**. The menu will close.
- ▶ To change the setting, highlight the required setting and press **OK**.

# Language

You can use this setting to specify the on-screen menu language.

- ▶ Highlight the required language setting.
- ▶ To accept the selected settings, press **OK**.

## Default setting (standard)

You can use this function to restore the camcorder's factory settings.

- ▶ Choose the "Standard" option.
- ▶ Press the **OK** button.

A confirmation prompt will appear on the screen.

- ▶ Select the "No" option to retain the current settings.
- ▶ Select the "Yes" option to accept the factory settings.
- ▶ Press **OK**. The menu will close.

# Installing and using the software provided

## Installing the camera driver

Before connecting the camera to your computer you need to install the driver on the computer. The driver is supplied on the CD-ROM included with the camera.

Proceed as follows to install the digital video driver and Ffdshow on your computer:

- ▶ Insert the CD in the correct drive on your computer. The welcome screen will appear.
- ▶ Select “Install driver”.
- ▶ Follow the instructions on the screen.
- ▶ After installing the digital video driver, the installation of Ffdshow starts automatically.
- ▶ Follow the instructions on the screen again.

## Installing application programs

The CD supplied contains three application programs.

- ▶ Arcsoft Media Converter 2.5  
You can convert videos to various formats with this program.
- ▶ Arcsoft MeiaImpression  
You can use this software to produce many exciting and interesting projects with your photos, videos and music files.
- ▶ Ffdshow  
This program installs all drivers necessary to play or edit H264 files on your computer.

# Transferring films and photos to a computer

Proceed as follows to transfer your films and photos to your computer for storage or editing:

- ▶ Using the cable supplied, connect the camera to the computer's USB connection.

The SHOOT FILM LED lights up red. The films and photos will be saved in the internal memory or on the SD card.

- Photos are in JPG format. They are located in the DCIM/100PHOTO folder in the internal memory or on your SD card.
- Films are in AVI format. They are located in the DCIM/200MOVIE folder in the internal memory or on your SD card.

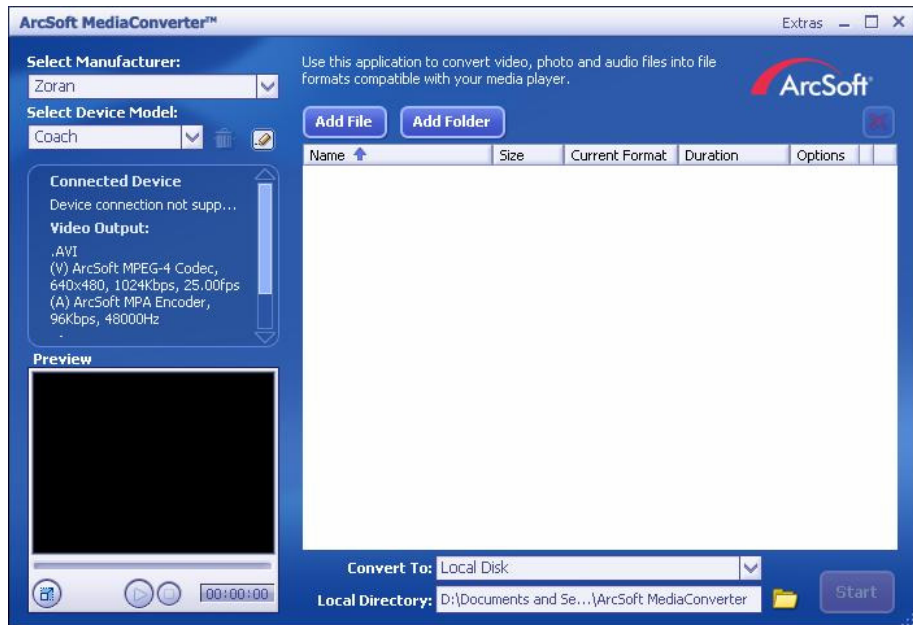


The folders are created automatically on the SD card.

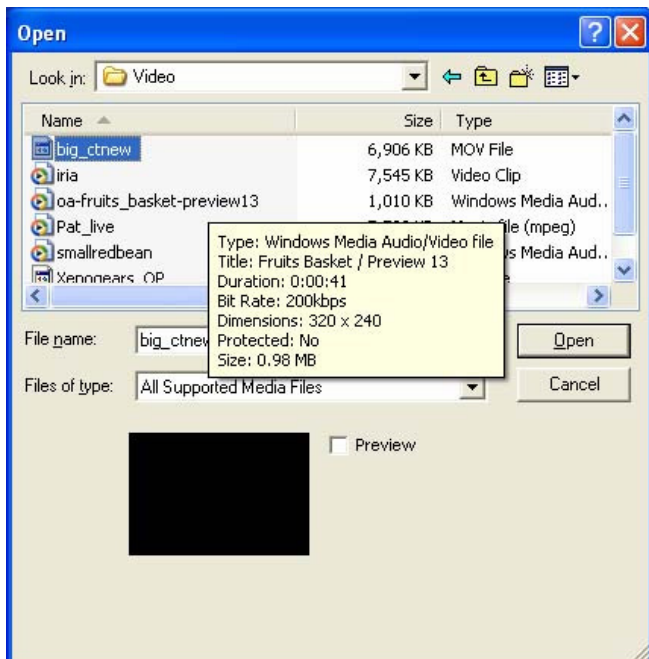
- ▶ Load the films or photos onto your computer.
- ▶ Log the camera off the computer.
- ▶ Remove the USB cable.

# Converting using Media Converter 2.5

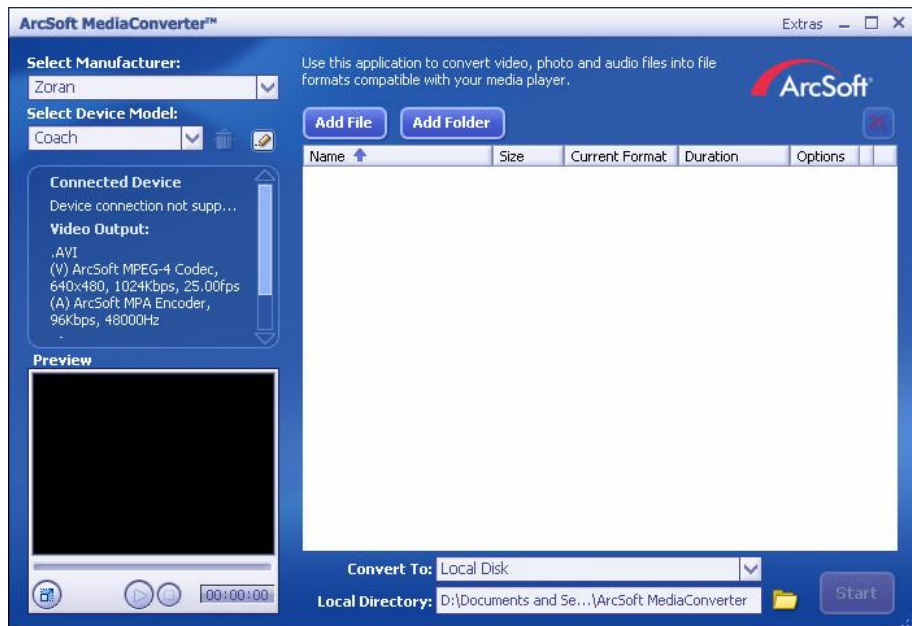
- ▶ Start Acrsoft Media Converter. The Media Converter 2.5 main screen appears.
- ▶ Click on “Add Media”.



- ▶ Select the video file to be converted and click on “Open”.



- ▶ The file will be added to the overview window.
- ▶ You can show the video below left in a preview.



Start preview



Stop preview

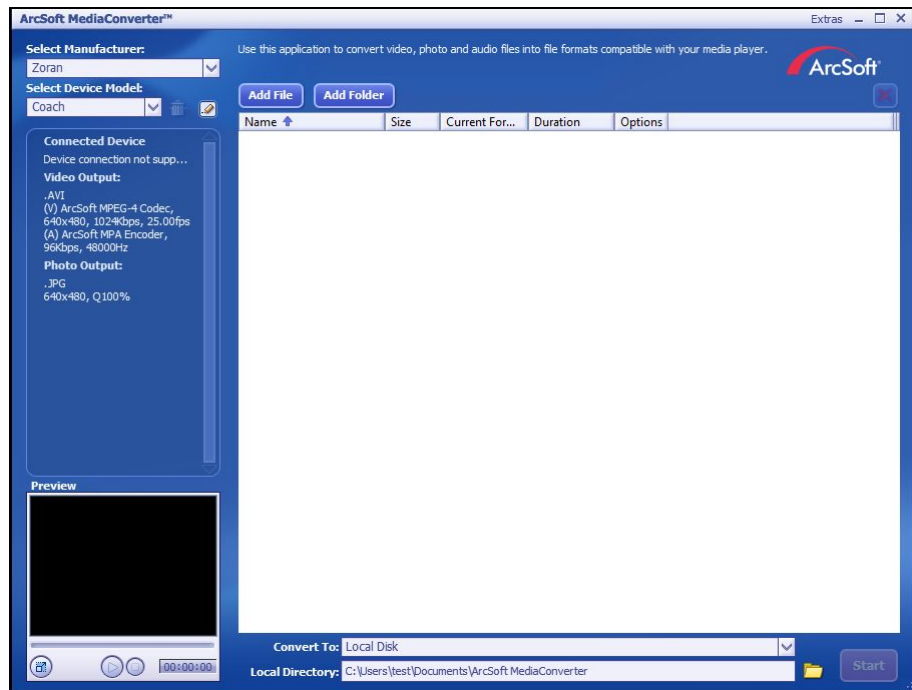


Not all devices can be identified by all program versions.

To convert media to play them back on the camera, select the following settings:

- Manufacturer – Zoran
- Device model – Coach.

- To start conversion click on “Convert”. The conversion process will start.



A report window will appear once conversion is complete.

- ▶ Rename the converted file “**Clip0001.avi**” before transferring it to the camera.
- ▶ If this file name already exists on the camera then change the name of the converted file to “ClipXXXX.avi”.



The “XXXX” represents the next available, consecutive number.

- ▶ Connect the camera to your computer with the USB cable.
- ▶ Transfer the converted file to the DCIM/200MOVIE folder on the SD card.
- ▶ Log the camera off the computer, remove the USB Cable and View the converted video file on the LC display

# Backing up video files on DVD

Arcsoft MediaImpression gives you the opportunity to back up your films to DVD.

How to create a DVD:

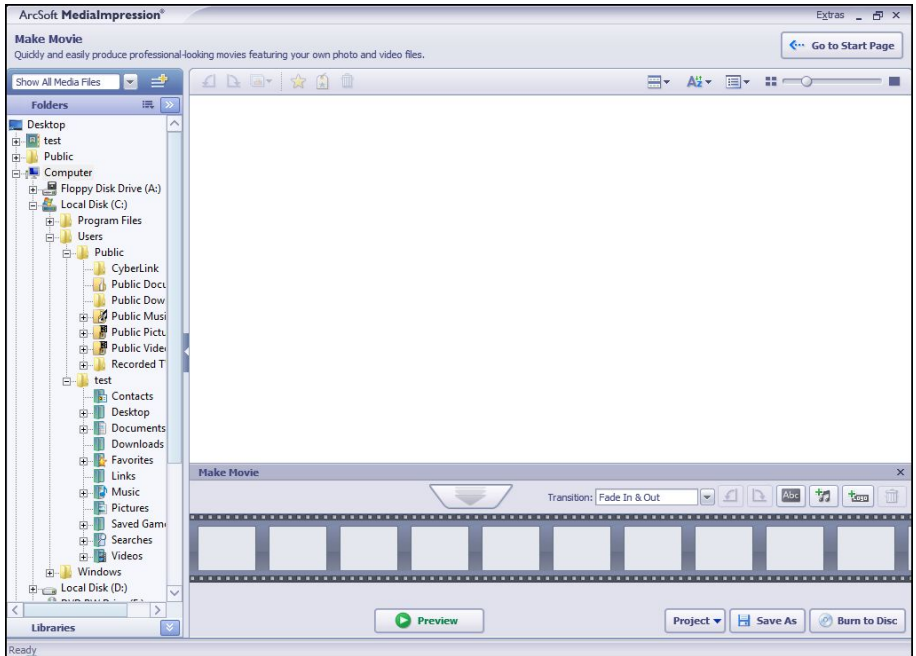
Proceed as follows to back up one or more video files on DVD:

- ▶ Start Arcsoft MediaImpression
- ▶ Click **“Make Movie”**.



When starting the program for the first time you are asked whether to search for existing media data on the PC.

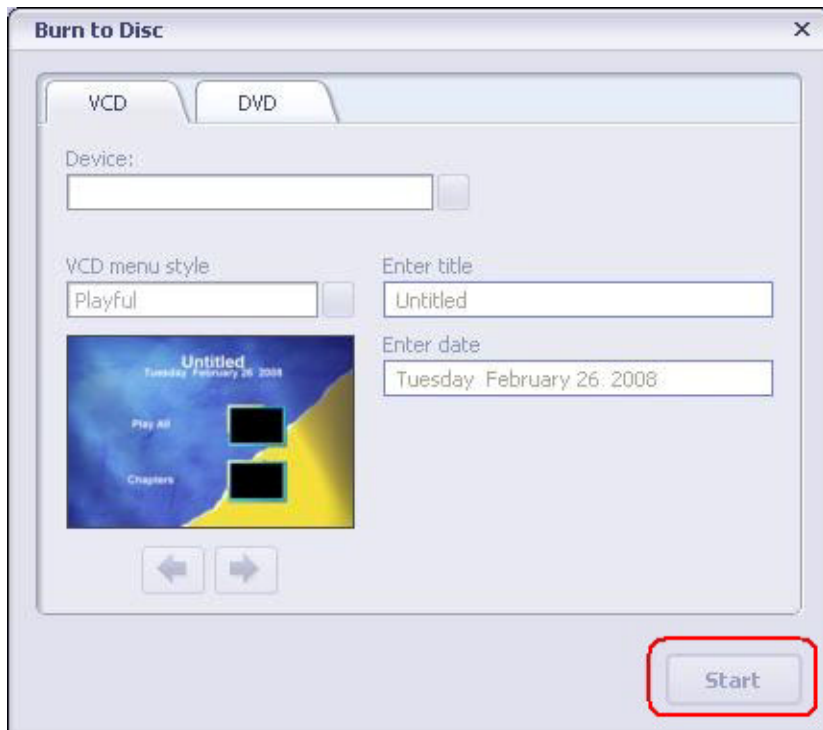
- ▶ Select the required video file.
- ▶ Drag the video file into the lower “film area” area.



After dragging all of the desired files into the lower “film bar” press “Record.”

Before starting the write process select the drive where the blank disc is located.

- Now you can enter a title and mark the date in the menu of the VCD or DVD. It is also possible to give the VCD or DVD a menu design of your choice.



- Select the file to be backed up and click “Start” to start the write process.



For a more detailed set of operating instructions from MedialImpression simply press “F1” on your keyboard when MedialImpression is running.

# System settings

|             | <b>Setting</b>       | <b>Validity</b> | <b>Factory Setting</b>               |
|-------------|----------------------|-----------------|--------------------------------------|
| Movie Mode  | Resolution           | Always          | High for Movie<br>Standart for Photo |
|             | Exposure             | One Time        | O EV                                 |
|             | Light                | One Time        | OFF                                  |
|             | Sharpness            | One Time        | Level 5                              |
|             | White Balance        | One Time        | Auto                                 |
|             | Motion Stabilization | Always          | OFF                                  |
|             | Night Mode           | One Time        | OFF                                  |
| Camera Mode | Two in One           | One Time        | OFF                                  |
|             | Photo Frame          | One Time        | OFF                                  |
|             | Flash                | Always          | OFF                                  |
|             | Self-Timer           | One Time        | OFF                                  |
|             | Photo Frame          | One Time        | OFF                                  |
|             | Backlight Mode       | One Time        | OFF                                  |
|             | Date Printing        | Always          | OFF                                  |
|             | Effect               | One Time        | Normal                               |
| Setting     | Sound                | Always          | On                                   |
|             | TV System            | Always          | Depends on shipping area             |
|             | Language             | Always          | Depends on shipping area             |
|             | Volume               | Always          | Level 6                              |

# Disposal

## Packaging



Your appliance has been packaged to protect it against transportation damage. Packaging materials are primary products and can therefore be reused or recycled.

## Appliance



At the end of its life, the appliance should not be disposed of in the normal household rubbish. Please consult your local authority for advice on correct and eco-friendly methods of disposal.

## Batteries



Do not dispose of used batteries in the household rubbish. Batteries should be taken to a collection point for used batteries.

# Cleaning

Before cleaning the device, always remove it from the mains supply.

Only use a dry, soft cloth to clean the device. Do not use chemical solutions and cleaning products because these may damage the unit's surface and/or inscriptions.

# Technical Data

|                  |                                                                                                            |
|------------------|------------------------------------------------------------------------------------------------------------|
| Image Sensor     | 5 Mega Pixel Sensor                                                                                        |
| Operation Modes  | Movie Record, Picture Record, Voice Record, MP3 Player, Mass Storage Device, Webcam                        |
| Lens             | F 3.2 (f= 7.0mm)                                                                                           |
| Display          | 3 " LCD                                                                                                    |
| TV out           | NTSC/PAL                                                                                                   |
| Storage Media    | Built in 64 MB Memory (partial memory is used for firmware), Card slot for SD/SDHC memory cards up to 8 GB |
| File format      | Picture: JPEG, Movie: AVI, VOICE: WAV, Music: MP3                                                          |
| Focus Range      | Normal Mode: 200 cm ~ ∞<br>Macro Mode: 20 cm center                                                        |
| Digital Zoom     | 8 x                                                                                                        |
| Image resolution | 3744 x 2808<br>2592 x 1944<br>1600 x 1200                                                                  |
| Movie Resolution | HD 1280 x 720<br>D1 720 x 480<br>VGA 460 x 480<br>QVGA 320 x 240                                           |
| White Balance    | Auto, Manual (Daylight, Fluorescent, Tungsten.)                                                            |
| Flash            | On, Off, Red Eye reduction, Light On, Auto                                                                 |
| Image Play       | Single Image, Thumbnails, Slideshow                                                                        |
| PC interface     | Mini USB 2.0 Port                                                                                          |
| Battery          | Lithium-ion Rechargeable Battery NP 60                                                                     |

# United Kingdom

## Restricted Warranty

### I. General Conditions of Warranty

#### 1. General

This warranty covers defects relating to workmanship and manufacture in MEDION products. The period during which this warranty is valid and during which claims against the warranty can be made to MEDION must be in accordance with the following terms in order to be considered eligible:

- Is effective from the date of purchase or receipt of the MEDION product from an authorised seller of MEDION products; and
- expires at the end of the warranty period specified on the warranty card provided with the product.

For the warranty to be valid, you must:

- provide suitable evidence of purchase, a copy of the original purchase receipt from an authorised seller of MEDION products is preferred; or
- register your product within 28 days of purchase either online at [www.MEDION.co.uk](http://www.MEDION.co.uk) or by completing and returning the pre-paid registration card included with the product.

Please keep the original purchase receipt and the warranty card in a safe place. MEDION and its authorised sellers reserve the right to refuse a repair under warranty or a warranty confirmation if a proof of purchase [or registration of purchase] cannot be established, or has not been, submitted.

When it is necessary to return your product for repair please ensure that your product is suitably packed for transportation.

Provided that your product is still within warranty (please check the duration of the warranty period as described above) and is eligible for repair or replacement under the terms of the warranty, to return your product, please telephone MEDION on the service hotline number. You will be sent a pre-paid transportation box suitable for

returning your product to MEDION. PLEASE MAKE SURE THAT YOU HAVE A BACKUP COPY OF ALL DATA ON THE PRODUCT BEFORE RETURNING THE PRODUCT TO MEDION. MEDION shall bear the costs of postage and packaging for returning the product and the transportation risk. However, if following examination of the defective product in question, MEDION, in its reasonable opinion, considers that the defect has been caused by:

- your operating and/or using the product other than as instructed in the accompanying documentation;
- damage caused in transit as a result of your negligence in packaging of the product; and/or
- otherwise than in accordance with the terms of this warranty;

This warranty shall be void and you may be required by MEDION to reimburse MEDION for the reasonable costs of postage and packaging before MEDION will return the product to you. If so and you would still like MEDION to repair or replace the product, MEDION may do so but you will be charged MEDION's standard rates for repair and replacement for this service.

Before returning the product, please contact MEDION via the service hotline or via the internet ([www.MEDION.co.uk](http://www.MEDION.co.uk)). You will receive a reference number (RMA No.) on the warranty card. Please mark the outside of your package to ensure that this reference number is clearly visible. Please submit a letter containing as much detailed information as possible and, a full description of the defect or fault.

This should include:

- a description of the fault;
- when it occurred, how long it has been evident and how frequently it occurs ;
- any error message(s) displayed when using the product;
- a description of the circumstance(s) and conditions in which the fault occurs; and
- whether it is an intermittent or persistent fault;

This will greatly assist MEDION in identifying the defect, when submitted together with the defective product.

Unless otherwise instructed by a MEDION representative in all cases, the product must be returned complete with all parts which were included with the original product. Incomplete contents of the returned package may lead to a delay in the repair or replacement. MEDION does not accept any liability for any additionally

submitted material(s) which were not supplied with the original MEDION product.

This warranty does not affect your statutory rights in any way and is subject to the applicable legal statutes of the country where the product was sold to you by an authorised MEDION seller.

## 2. Scope

Subject to any exclusions set out within this warranty, where there is a defect in your MEDION product covered by this warranty, MEDION will repair or replace the MEDION product. The decision whether to repair or replace the product will be made solely at the discretion of MEDION. MEDION may, in its own discretion, replace the product returned for repair under warranty with a replacement product that is either identical or, in the event that such product(s) are no longer available, a product of equal or superior specification and quality.

No warranty is given for batteries or rechargeable batteries or for consumable materials subject to wear and tear, i.e. for parts which have to be replaced periodically during the normal use of the product, such as video-projector lamp.

Non critical failures that fall within industry specified tolerances e.g. noise, LCD pixels are not covered by this warranty. Please consult the appropriate section in your user or instruction manual for this product for exact specifications and tolerances.

To the extent which is permitted under law, MEDION will accept no liability for burnt-in images on plasma or LCD products as a result of normal wear and tear during the operation of the product. Please refer to your user or instruction manual for this product for detailed operating instructions for your plasma or LCD product.

The warranty does not cover errors relating to the playback of data media in an incompatible format or created with unsuitable software.

If it is found during repair or assessment that the defect concerned is not covered under warranty, MEDION reserves the right to invoice you for all reasonable costs incurred by MEDION. These costs will be in relation to the return of the product, including reasonable administration costs, plus reasonable costs for materials used and labour provided when repairing or replacing the product. This is subject to MEDION providing you with an estimate for carrying out such work prior to costs being incurred and that you have accepted the estimate.

You are entitled to seek independent advice or consultation relating to your product or any of MEDION's findings. MEDION will not be liable for any costs incurred to

you when doing so.

### **3. Exclusion from warranty**

To the extent permitted by law, this warranty shall be void in the event that defects or loss caused by:

- a. failure and damage resulting from the operation of the product in an environment other than that recommended in the accompanying user or instruction manual (e.g. in direct sunlight or in a damp room);
- b. accidental damage;
- c. use other than in accordance with the accompanying user or instruction manual;
- d. modifications, conversions, expansions, maintenance and/or repairs made to the MEDION product by unauthorised repairers or use of unauthorised third party parts;
- e. negligence;
- f. virus attack or software errors; or
- g. improper transportation or packaging during return of the product.

This warranty will also be considered void if labels or serial numbers of the product or of a component of the product are modified or made illegible.

To the extent permitted by law, MEDION shall; only be responsible for losses which are a reasonably foreseeable consequence of the relevant defect in the product; MEDION will not be responsible for any costs incurred in relation to software configuration; economic loss; loss of opportunity; loss of income; or loss of data or software arising out of its repair or replacement of a MEDION product under this warranty

### **4. Service Hotline**

Before returning the product to MEDION you must contact us using the service hotline or via the internet ([www.MEDION.co.uk](http://www.MEDION.co.uk)). You will receive further instructions for making your claim under warranty when you call.

The service hotline is available on 362 days in the year, including Sundays and bank holidays but excluding Christmas day, New Years Day and Easter day. The service hotline is subject to [national rate] telephone call charges. These charges are subject to change. The price of your call will be stated at the beginning of the call.

## **II. Special warranty conditions for MEDION PC, notebook, pocket PC (PDA) and navigation devices (PNA)**

The following terms apply to MEDION PC, notebook, desktop, pocket PC and laptop products and optional items included with such products. If one of these items has a fault, you also have a warranty claim for its repair or replacement, from MEDION. The warranty covers the costs of materials and labour for repairing or replacing the defective MEDION product or the optional item in question.

Hardware connected to your product that was not produced or marketed by MEDION can invalidate the warranty if MEDION can reasonably demonstrate that damage to the MEDION product or of the optional item included with the delivery was caused by such hardware. You are entitled to seek independent advice or consultation relating to your product or any of MEDION's findings. MEDION will not be liable for any costs incurred to you when doing so.

This warranty is restricted in relation to any pre-installed operating system as well as to application programme software that is included with the MEDION product in question. This warranty is restricted as follows:

For pre-installed operating system as well as to application programme software included in the MEDION product, MEDION only guarantees the data media (e.g. the diskettes and CD-ROMs) upon which this software is delivered and warrants that such data media shall be free from material and processing defects for a period of 90 days from the date of purchase of the MEDION product from an authorised seller of MEDION. MEDION will replace defective data media free of charge.

Any claims in respect of defective pre-installed operating system as well as to application programme software are hereby expressly excluded and you should contact the relevant licensor or copyright owner of the defective software in question. MEDION does not guarantee that any software supplied with MEDION products will function without interruption, will be free from errors or that it will fulfil your requirements. MEDION does not guarantee the 100% accuracy of the maps provided with the Navigation device.

It may be necessary to delete all data in the product in order to repair the MEDION product. PLEASE MAKE SURE THAT YOU HAVE A BACKUP COPY OF ALL DATA ON THE PRODUCT BEFORE RETURNING THE PRODUCT TO MEDION. To the extent permitted by law, MEDION excludes all liability for loss of data and MEDION recommends in all cases that you back up all data on your MEDION product before

returning the product to MEDION.

### **III. Special warranty conditions for repair on site or replacement on site**

If a claim for repair or replacement on site is included within the terms of the warranty card provided with the product, the special warranty conditions for repair or replacement of your MEDION product on site apply.

The following provisions must be made by you for carrying out repairs or replacements on site:

- MEDION or its authorised personnel must have unrestricted, safe and immediate access to the products.
- Telecommunication facilities required by MEDION or its authorised personnel for proper execution of your order, for testing and diagnostic purposes and for remedying faults are provided by you at your own expense.
- You are responsible yourself for restoring the application software after the repair services have been carried out by MEDION or its authorised personnel.
- You must take all other necessary steps to enable MEDION or its authorised personnel to carry out your order properly.
- You are responsible yourself for connecting and configuring any existing external peripheral products after MEDION or its authorised personnel have carried out their repairs.

The free cancellation period for repairs or replacements on site is 24 hours, thereafter our reasonable costs resulting from late or missing cancellation shall be invoiced at your expense.